

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

| SUBMISSION TYPE:  | NEW ASSIGNMENT                    |               |                                   |                     |                          |                        |            |                   |            |                  |            |
|---|-----------------------------------|---------------|-----------------------------------|---------------------|--------------------------|------------------------|------------|-------------------|------------|------------------|------------|
| NATURE OF CONVEYANCE:   | ASSIGNMENT                        |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| CONVEYING PARTY DATA  |                                   |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Vincent Paul Zeller</td> <td>05/21/2012</td> </tr> <tr> <td>Paul David Ringgenberg</td> <td>05/21/2012</td> </tr> <tr> <td>Scott Luke Miller</td> <td>05/07/2012</td> </tr> <tr> <td>Cyrus Aspi Irani</td> <td>05/07/2012</td> </tr> </tbody> </table>  |                                   | Name          | Execution Date                    | Vincent Paul Zeller | 05/21/2012               | Paul David Ringgenberg | 05/21/2012 | Scott Luke Miller | 05/07/2012 | Cyrus Aspi Irani | 05/07/2012 |
| Name  | Execution Date                    |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| Vincent Paul Zeller   | 05/21/2012                        |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| Paul David Ringgenberg  | 05/21/2012                        |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| Scott Luke Miller   | 05/07/2012                        |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| Cyrus Aspi Irani  | 05/07/2012                        |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| RECEIVING PARTY DATA  |                                   |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| <table border="1"> <tr> <td>Name:</td> <td>Halliburton Energy Services, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>10200 Bellaire Boulevard</td> </tr> <tr> <td>City:</td> <td>Houston</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>77072</td> </tr> </table>   |                                   | Name:         | Halliburton Energy Services, Inc. | Street Address:     | 10200 Bellaire Boulevard | City:                  | Houston    | State/Country:    | TEXAS      | Postal Code:     | 77072      |
| Name:   | Halliburton Energy Services, Inc. |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| Street Address:   | 10200 Bellaire Boulevard          |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| City:   | Houston                           |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| State/Country:  | TEXAS                             |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| Postal Code:  | 77072                             |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| PROPERTY NUMBERS Total: 1   |                                   |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13111316</td> </tr> </tbody> </table>   |                                   | Property Type | Number                            | Application Number: | 13111316                 |                        |            |                   |            |                  |            |
| Property Type   | Number                            |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| Application Number:   | 13111316                          |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| CORRESPONDENCE DATA   |                                   |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| <p>Fax Number: (404)541-3116<br/>         Phone: 404-815-6500<br/>         Email: andavis@kilpatricktownsend.com<br/> <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: John S. Pratt, Esq.<br/>         Address Line 1: Kilpatrick Townsend &amp; Stockton LLP<br/>         Address Line 2: 1100 Peachtree Street, Suite 2800<br/>         Address Line 4: Atlanta, GEORGIA 30309</p> |                                   |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| ATTORNEY DOCKET NUMBER:   | 61429-392769                      |               |                                   |                     |                          |                        |            |                   |            |                  |            |
| NAME OF SUBMITTER:  | Angie Davis                       |               |                                   |                     |                          |                        |            |                   |            |                  |            |

OP \$40.00 13111316

Total Attachments: 4

source=Assignment#page1.tif

source=Assignment#page2.tif

source=Assignment#page3.tif

source=Assignment#page4.tif

**PATENT**

**REEL: 028360 FRAME: 0830**

**ASSIGNMENT NUNC PRO TUNC**  
(Patent Application)

We, the undersigned, have invented certain inventions and improvements disclosed in a utility patent application entitled "*Systems and Methods for Single-Phase Fluid Sampling*," which was filed with the U.S. Patent & Trademark Office on May 19, 2011 and assigned serial no. 13/111,316.

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which we acknowledge, we:

1. Agree to sell, assign, transfer, and convey, and hereby do sell, assign, transfer, and convey, to Halliburton Energy Services, Inc., a corporation of the State of Texas having a principal place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 ("Assignee"), the entire right, title, and interest in and to:
  - (a) all intellectual property (including, without limitation, any innovation, information, invention, discovery, product, process, work or design) disclosed, embodied, shown, or claimed in the above-referenced patent application, implicitly or explicitly;
  - (b) the above-referenced patent application and any application based in whole or in part upon the above-referenced patent application, including, without limitation, any application that is a provisional, non-provisional, design, divisional, continuation, continuation-in-part, reissue, reexamination, or non-U.S. patent application based in whole or in part on the above-referenced patent application; and
  - (c) any patent (including, without limitation, any U.S. and non-U.S. patents, utility models, industrial designs, design patents, continuations, continuations-in-part, divisionals, reissues and reexaminations) that is granted or issued upon, or that claims priority to, any and all applications under (b) of this paragraph or that discloses or claims intellectual property under (a) of this paragraph, in whole or in part.
2. Authorize and request the Commissioner of Patents or any other agency, U.S. or non-U.S., to issue to the Assignee any and all patent(s), or other rights or documents, resulting from the intellectual property, patent application(s) and patents under paragraph 1.
3. Agree to sign all papers and documents, including without limitation, applications, declarations, oaths, and petitions, and, at the Assignee's expense, perform any acts that are necessary in connection with prosecution of patent application(s) or intellectual property under paragraph 1 and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.

ASSIGNMENT NUNC PRO TUNC

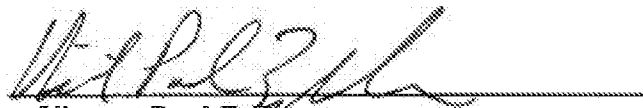
U.S. Serial No. 13/111,316

Page 2 of 3

4. Agree that the terms, covenants, and conditions of this agreement shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon us, as well as our heirs, legal representatives, and assigns.
5. Warrant and represent that we have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this assignment.

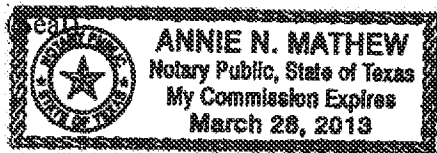
This Assignment is expressly made NUNC PRO TUNC to have the same legal force and effect as if executed on **May 19, 2011** (the filing date of the above-referenced U.S. patent application).

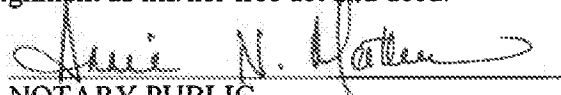
Dated: 5-21-12

  
\_\_\_\_\_  
Vincent Paul Zeller


STATE OF TEXAS  
COUNTY OF DALLAS

Before me, a Notary Public in and for the State of TEXAS, on this 21<sup>st</sup> day of May, 2012, personally appeared **Vincent Paul Zeller**, who being duly sworn, signed and acknowledged the foregoing Assignment as his/her free act and deed.



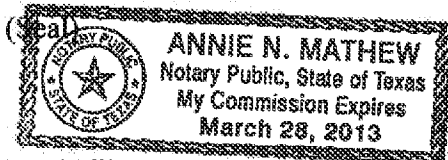
  
\_\_\_\_\_  
NOTARY PUBLIC  
My Commission Expires:

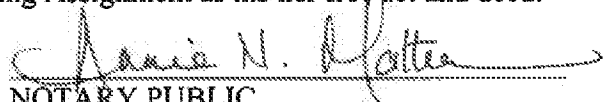
Dated: 21 MAY 2012

  
\_\_\_\_\_  
Paul David Ringgenberg

STATE OF TEXAS  
COUNTY OF DALLAS

Before me, a Notary Public in and for the State of TEXAS, on this 21<sup>st</sup> day of May, 2012, personally appeared **Paul David Ringgenberg**, who being duly sworn, signed and acknowledged the foregoing Assignment as his/her free act and deed.



  
\_\_\_\_\_  
NOTARY PUBLIC  
My Commission Expires:

US2008 289173A.1

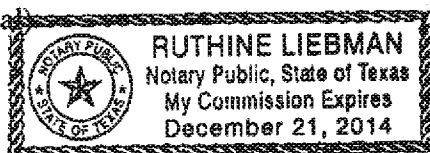
Dated: 7 MAY 2012

Scott Luke Miller  
Scott Luke Miller

STATE OF TEXAS  
COUNTY OF DALLAS

Before me, a Notary Public in and for the State of Texas, on this 7<sup>th</sup> day of May, 2012, personally appeared **Scott Luke Miller**, who being duly sworn, signed and acknowledged the foregoing Assignment as his/her free act and deed.

(Seal)



Ruthine Lieberman  
NOTARY PUBLIC  
My Commission Expires: 12-21-2014

Dated: \_\_\_\_\_

\_\_\_\_\_  
Cyrus Aspi Irani

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

Before me, a Notary Public in and for the State of \_\_\_\_\_, on this \_\_\_\_\_ day of \_\_\_\_\_, 2012, personally appeared **Cyrus Aspi Irani**, who being duly sworn, signed and acknowledged the foregoing Assignment as his/her free act and deed.

(Seal)

\_\_\_\_\_  
NOTARY PUBLIC  
My Commission Expires: \_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_  
Scott Luke Miller

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

Before me, a Notary Public in and for the State of \_\_\_\_\_, on this \_\_\_\_\_ day of \_\_\_\_\_, 2012, personally appeared **Scott Luke Miller**, who being duly sworn, signed and acknowledged the foregoing Assignment as his/her free act and deed.

(Seal)

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_

Dated: 05/07/2012

Cyrus Aspi Irani  
Cyrus Aspi Irani

STATE OF Texas

COUNTY OF HARRIS

Before me, a Notary Public in and for the State of Texas, on this 7<sup>th</sup> day of May, 2012, personally appeared **Cyrus Aspi Irani**, who being duly sworn, signed and acknowledged the foregoing Assignment as his/her free act and deed.

(Seal)

Adam Brenning Collins  
NOTARY PUBLIC

My Commission Expires: 9/15/2015

